SEQUENCE LISTING

<110> MERISTEM THERAPEUTICS

<120> SYNTHETIC AND CHIMERIC PROMOTERS, EXPRESSION CASSETTES, PLASMIDS, VECTORS, TRANSGENIC PLANTS ET SEEDS INCLUDING THEM AND PROCESSES FOR PRODUCING THE SAME

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<170> PatentIn Ver. 2.1

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cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgcacgcag ccatggtcct gaaccttcac ctcgtcccta taaaagccta 360

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aaacaaacct caccgtgcac gcagccatgg tcctgaacct tcacctcgtc cctataaaag 120

cctagccaac cttcacaatc ttatcatcac ccacaacacc gagcaccaca aactagagat 180

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gctaaacaaa cctcaccgtg cacgcagcca tggtcctgaa ccttcacctc gtccctataa 180

aagcctagcc aaccttcaca atcttatcat cacccacaac accgagcacc acaaactaga 240

gatc 244

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accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgcacgcag 180

ccatggtcct gaaccttcac ctcgtcccta taaaagccta gccaaccttc acaatcttat 240

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cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgattgatg tgatatcaag attgatgtga tatctccact gacgtaaggg 360

atgacgcaca cgcagccatg gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa 420

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<223> As2/As1 box

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<222> ()..(393)

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<221> misc_feature

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cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc 360

atggtcctga accttcacct cgtccctata aaagcctagc caaccttcac aatcttatca 420

tcacccacaa caccgagcac cacaaactag agatc 455

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accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180

tgatatcaag attgatgtga tatctccact gacgtaaggg atgacgcaca cgcagccatg 240

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<222> (181)

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agccatggtc ctgaaccttc acctcgtccc tataaaagcc tagccaacct tcacaatctt 180

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<223> As2/As1 box

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<222> (214)..(220)

<223> TATA box

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gctaaacaaa cctcaccgtg attgatgtga tatctccact gacgtaaggg atgacgcaca 180

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<221> misc_feature

<222> (174)..(211)

<223> As2/As1 box

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<221> TATA_signal

<222> (247)..(253)

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<221> misc_feature

<222> (277)

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aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg cgcttttcca 120

accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180

tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga accttcacct 240

cgtccctata aaagcctagc caaccttcac aatcttatca tcacccacaa caccgagcac 300

cacaaactag agatc 315

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<222> (39)..(61)

<223> Cereal box

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<222> (120)..(123)

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<221> misc_feature

<222> (137)..(140)

<223> GATA box

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<222> (72)..(79)

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<221> misc_feature

<222> (177)..(183)

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<221> misc_feature

<222> (467)

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ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac cccaagaagg 120

ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca cacttctgca 180

aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat 240

ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg 300

cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc 360

gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga 420

accttcacct cgtccctata aaagcctagc caaccttcac aatcttatca tcacccacaa 480

caccgagcac cacaaactag agatc 505

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<212> DNA

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<221> misc_feature

<222> (58)

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atcacccaca acaccgagca ccacaaacta gagatc 96

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promoter

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<222> (40)..(77)

<223> Enhancer box

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<221> TATA_signal

<222> (119)..(125)

<223> TATA box

<220>

<221> misc_feature

<222> (149)

<223> Transcription Initiation Site

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tccttgctta tccagcttct tttgtgttgg ccatggtcct gaaccttcac ctcgtcccta 120

taaaagccta gccaaccttc acaatcttat catcacccac aacaccgagc accacaaact 180

agagatc 187

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<221> misc_feature

<222> (34)..(41)

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<222> (66)..(103)

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<221> TATA_signal

<222> (222)..(228)

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<221> misc_feature

<222> (252)

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aatctgtttt gcaaagctcc aattgctcct tgcttatcca gcttcttttg tgttggcaaa 120

ctgcgctttt ccaaccgatt ttgttcttct cgcgctttct tcttaggcta aacaaacctc 180

accgtgcacg cagccatggt cctgaacctt cacctcgtcc ctataaaagc ctagccaacc 240

ttcacaatct tatcatcacc cacaacaccg agcaccacaa actagagatc 290

<210> 15

<211> 381

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<221> misc_feature

<222> (87)..(94)

<223> G-like box

<220>

<221> enhancer

<222> (119)..(156)

<223> Enhancer box

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<221> misc_feature

<222> (240)..(277)

<223> As2/As1 box

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<222> (313)..(319)

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ggccgtagat ttgctctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt 120

tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180

tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtga 240

ttgatgtgat atctccactg acgtaaggga tgacgcacac gcagccatgg tcctgaacct 300

tcacctcgtc cctataaaag cctagccaac cttcacaatc ttatcatcac ccacaacacc 360

gagcaccaca aactagagat c 381

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Promoter

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<223> Enhancer box

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<221> misc_feature

<222> (87)..(94)

<223> G-like box

<220>

<221> TATA_signal

<222> (275)..(281)

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<221> misc_feature

<222> (305)

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ggccgtagat ttgctctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt 120

tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180

tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc 240

acgcagccat ggtcctgaac cttcacctcg tccctataaa agcctagcca accttcacaa 300

tcttatcatc acccacaaca ccgagcacca caaactagag atc 343

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<221> misc_feature

<222> (7)..(14)

<223> G-like box

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<222> (39)..(76)

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<222> (102)..(109)

<223> G-like box

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<222> (134)..(171)

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<221> TATA_signal

<222> (290)..(296)

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tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180

ttggcaaact gcgcttttcc aaccgatttt gttcttctcg cgctttcttc ttaggctaaa 240

caaacctcac cgtgcacgca gccatggtcc tgaaccttca cctcgtccct ataaaagcct 300

agccaacctt cacaatctta tcatcaccca caacaccgag caccacaaac tagagatc 358

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Sequence:Oligodesoxynucleotide

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atcggaattc gtgttggcaa actgc 25

<210> 19

<211> 29

<212> DNA

<213> Artificial Sequence

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<400> 19

atcgggaatt cgcagactgt ccaaaaatc 29

<210> 20

<211> 29

<212> DNA

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Sequence:Oligodesoxynucleotide

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atcggaattc cagaactagg attacgccg 29

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gttttgagtg gccgtagatt tgc 83

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<210> 25

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<210> 26

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<400> 26

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<210> 28

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<212> DNA

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agccatggtc ctgaaccttc 80

<210> 29

<211> 33

<212> DNA

<213> Artificial Sequence

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Sequence:Oligodesoxynucleotide

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<210> 30

<211> 26

<212> DNA

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<400> 30

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<210> 31

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<223> Description of Artificial
Sequence:Oligodesoxynucleotide

<400> 31

gctctagacc aacacaaaag aagctgg 27

<210> 32

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<210> 33

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aag 63

<210> 34

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<223> Description of Artificial

Sequence:Oligodesoxynucleotide

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tgaggtttgt ttagcctaag 80

<210> 35

<211> 236

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<222> (78)..(132)

<223> As2/As2/As1 box

<220>

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<222> (198)

<223> Transcription Initiation Site

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aaacaaacct caccgtgatt gatgtgatat caagattgat gtgatatctc cactgacgta 120

agggatgacg cacacgcagc catggtcctg aaccttcacc tcgtccctat aaaagcctag 180

ccaaccttca caatcttatc atcacccaca acaccgagca ccacaaacta gagatc 236

<210> 36

<211> 299

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:MPr1134

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<221> enhancer

<222> (20)..(57)

<223> Enhancer box

<220>

<221> misc_feature

<222> (141)..(195)

<223> As2/As2/As1 box

<220>

<221> misc_feature

<222> (261)

<223> Transcription Initiation Site

<400> 36

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tttgtgttgg caaactgcgc ttttccaacc gattttgttc ttctcgcgct ttcttcttag 120

gctaaacaaa cctcaccgtg attgatgtga tatcaagatt gatgtgatat ctccactgac 180

gtaagggatg acgcacacgc agccatggtc ctgaaccttc acctcgtccc tataaaagcc 240

tagccaacct tcacaatctt atcatcaccc acaacaccga gcaccacaaa ctagagatc 299

<210> 37

<211> 453

<212> DNA

<213> Artificial Sequence

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<223> G-like box

<220>

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<222> (40)..(77)

<223> Enhancer box

<220>

<221> misc_feature

<222> (102)..(109)

<223> G-like box

<220>

<221> enhancer

<222> (134)..(171)

<223> Enhancer box

<220>

<221> misc_feature

<222> (197)..(204)

<223> G-like box

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<222> (229)..(266)

<223> Enhancer box

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<222> (385)..(391)

<223> TATA box

<220>

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<222> (415)

<223> Transcription Initiation Site

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tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180

ttggtctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt tttgcaaagc 240

tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct tttccaaccg 300

attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc acgcagccat 360

ggtcctgaac cttcacctcg tccctataaa agcctagcca accttcacaa tcttatcatc 420

acccacaaca ccgagcacca caaactagag atc 453

1

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